NC/QC/YPD/2020-21/UGD-W9-C1 **Date: 15-06-2020**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: UGD Works in Ward No. 09.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.91 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.84 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.57 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/2020-21/UGD-W9-FA1 **Date: 15-06-2020**

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.
{Project*: UGD Works in Ward No. 09.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.60**	60-95	75-100	85-100	
01.18	**74.95**	30-70	55-90	75-100	
600. mic	**52.20**	15.34	35-59	60-79	
300.mic	**17.55**	5-20	8-30	12-40	
150.mic	**7.30**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.67 %**	-----
2	Silt Content	----	**0.59 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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NC/QC/YPD/2020-21/UGD-W9-CA1 **Date: 15-06-2020**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: UGD Works in Ward No. 09.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.30**	85-100	90 - 100
10 mm	**54.95**	0 - 20	25 - 55
4.75 mm	**4.40**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	**Requirements** as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**23.57 %**	Not to exceed 25 %
2.	Crushing value	**28.04 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD/2020-21/UGD-W9-B1 **Date: 26-06-2020**

1. TEST REPORT ON BRICKS:

Sub: Testing of Bricks.
{Project*: UGD Works in Ward No. 09.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KIDL, Bangalore.

I.WATER ABSORPTION TEST:

Sl No	Brand Name	Water absorption %	Average value %	Normal Values
1	Sample-I	11.35	**11.04 %**	As per IS:1077-1992 water absorption shall not be more than 20.00%
2	Sample-II	10.74		
3	Sample-III	11.23		
4	Sample-IV	11.64		
5	Sample-V	10.28		

II. COMPRESSIVE STRENGTH :

Sl No	Brand Name	Compressive Strength N/Sq.mm	Average value N/Sq.mm	Normal Values
1	Sample-I	5.35	**5.32**	---------
2	Sample-II	5.18		
3	Sample-III	5.64		
4	Sample-IV	5.29		
5	Sample-V	5.14		

III. EFFLORSCENCE:

Sl No	Brand	Efflorescence	Explanation as per IS: 3495:1992(Part-II)
1	Sample-I	Nil	Not more than 10 % of the exposed area of the brick is covered with a thin deposit of salts.
2	Sample-II	Nil	
3	Sample-III	Nil	
4	Sample-IV	Nil	
5	Sample-V	Nil	

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NC/QC/YPD/2020-21/UGD-W9-W1 Date: 15-07-2020

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: UGD Works in Ward No. 09.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KIDL, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.65**	95-100
26.50	**---**	-
22.40	**71.80**	60-80
11.20	**49.25**	40-60
4.75	**29.40**	25-40
2.36	**19.10**	15-30
0.600	**14.95**	8-22
0.075	**3.80**	0-5

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Date: 15-07-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.11 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**29.46 %**	Not more than 35.0 %
3.	Water absorption, %	**0.44 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/YPD/2020-21/UGD-W9-C1 **Date: 15-06-2020**

1. TEST REPORT ON CEMENT:

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{Project*: UGD Works in Ward No. 09.}
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Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

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